

### **PROGRAM CODE**

```
#include <stdio.h>
#include <stdlib.h>
#define MAX 50

int files[MAX];
struct indarr
{
    int fname;
    int arr[MAX];
}p[MAX];

void main()
{
    for(int i=0;i<MAX;i++)
        files[i]=0;

    int flen,ibk;
    int fnam,temp,ch;
    new:
    printf("Enter File Name = ");
    scanf("%d",&fnam);

    printf("Enter the file length = ");
    scanf("%d",&flen);
    x:
    printf("Enter the index block = ");
    scanf("%d",&ibk);

    if(files[ibk]==1)
    {
        printf("Index Block Occupied\n");
        goto x;
    }
    else
    {
        files[ibk]=1;
    }

    for(int i=0;i<flen;i++)
    {
        y:
        printf("Enter the (%dth/%d) Block = ",i+1,flen);
        scanf("%d",&temp);
        if(files[temp]==1)
        {
            printf("Block(%d) Occupied\n",temp);
            goto y;
        }
        else
```


```

        {
            p[ibk].fname=fnam;
            p[ibk].arr[i]=temp;
            files[temp]=1;
        }
    }
    printf("FILE :- %d\tIndex Block :- %d\t",p[ibk].fname,ibk);
    printf("Block :- ");
    for(int i=0;i<flen;i++)
    {
        printf("%d ",p[ibk].arr[i]);
    }

    printf("\nDo want to continue ? [no/yes1] = ");
    scanf("%d",&ch);
    if(ch)
        goto new;
    else
        exit(0);
}

```

## **OUTPUT**



```

gopikrishna_52@GOPIKRISHNA: ~/Desktop
gopikrishna_52@GOPIKRISHNA:~/Desktop$ gcc index.c
gopikrishna_52@GOPIKRISHNA:~/Desktop$ ./a.out
Enter File Name = 1
Enter the file length = 5
Enter the index block = 1
Enter the (1th/5) Block = 2
Enter the (2th/5) Block = 4
Enter the (3th/5) Block = 6
Enter the (4th/5) Block = 8
Enter the (5th/5) Block = 10
FILE :- 1          Index Block :- 1          Block :- 2 4 6 8 10
Do want to continue ? [no/yes1] = 1
Enter File Name = 2
Enter the file length = 5
Enter the index block = 2
Index Block Occupied
Enter the index block = 3
Enter the (1th/5) Block = 5
Enter the (2th/5) Block = 7
Enter the (3th/5) Block = 8
Block(8) Occupied
Enter the (3th/5) Block = 9
Enter the (4th/5) Block = 11
Enter the (5th/5) Block = 10
Block(10) Occupied
Enter the (5th/5) Block = 12
FILE :- 2          Index Block :- 3          Block :- 5 7 9 11 12
Do want to continue ? [no/yes1] = 0
gopikrishna_52@GOPIKRISHNA:~/Desktop$ 

```